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09/849452

DATE: Wednesday, November 13, 2002

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
L7	L4 same elicitor	1	L7
L6	L5 same elicitor	1	L6
L5	L1 near5 promoter	87	L5
L4	L1 near10 promoter	130	L4
L3	L1 same (responsive near10 promoter)	3	L3
L2	L1 same (responsive promoter)	0	L2
L1	R gene	725	L1

END OF SEARCH HISTORY

09/849452

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DIALOG #2

Set	Items	Description
S1	6554	R(W)GENE
S2	2	S1 (S) (RESPONSIVE(W)PROMOTER)
S3	2	RD S2 (unique items)
S4	47443	RESISTANCE(W) GENE
S5	4374	S4 (S) PLANT
S6	72	S5 (S)REPORTER
S7	39	S6 (S) PROMOTER
S8	6	S7 (S) ELICITOR
S9	9	S7 (S) ACTIVATOR
S10	15	S8 OR S9
S11	4	RD S10 (unique items)

?

SYSTEM:OS - DIALOG OneSearch
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11/K/1 (Item 1 from file: 5)
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...ABSTRACT: function-based gene isolation and characterization in barley, we created a plasmid containing the maize **Activator** (Ac) transposase (AcTPase) gene and a negative selection gene, codA, and a plasmid containing Dissociation (Ds) inverted-repeat ends surrounding the selectable herbicide **resistance gene**, bar. These plasmids were used to stably transform barley (Hordeum vulgare). In vitro assays, utilizing a Ds-interrupted uidA **reporter** gene, were used to demonstrate high-frequency excisions of Ds when the uidA construct was introduced transiently into stably transformed, AcTPase-expressing **plant** tissue. Crosses were made between stably transformed plants expressing functional transposase under the transcriptional control of either the putative AcTPase **promoter** or the **promoter** and first intron from the maize ubiquitin (Ubi1) gene, and plants containing Ds-Ubi-bar...

11/K/2 (Item 2 from file: 5)
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...ABSTRACT: avirulence gene avr9 of the fungal tomato pathogen Cladosporium fulvum encodes a race-specific peptide **elicitor** that induces the hypersensitive response in tomato plants carrying the complementary **resistance gene** Cf 9. The avr9 gene is not expressed under optimal growth conditions in vitro, but...

...or glutamine) induced the expression of avr9. Limitation of other macronutrients or the addition of **plant** factors did not induce the expression of avr9. The induced expression of avr9 is possibly...

...protein, which induces the expression of many genes under conditions of nitrogen limitation. The avr9 **promoter** contains several putative NIT2 binding sites. The expression of avr9 during the infection process was explored cytologically using transformants of C. fulvum carrying an avr9 **promoter**-beta-glucuronidase **reporter** gene fusion. The possibility that expression of avr9 in C.fulvum growing in planta is...

11/K/3 (Item 1 from file: 50)
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--
The avirulence gene avr9 of C. fulvum (Fulvia fulva) encodes a race-specific peptide **elicitor** that induces the hypersensitive response in tomato plants carrying the complementary **resistance gene** Cf9. The avr9 gene is not expressed under optimal growth conditions in vitro, but is...

... or glutamine) induced the expression of avr9. Limitation of other macronutrients or the addition of **plant** factors did not induce the expression of avr9. It is suggested that the induced expression...

... protein, which induces the expression of many genes under conditions of nitrogen limitation. The avr9 **promoter** contains several putative NIT2 binding sites. The expression of avr9 during the infection process was explored cytologically using transformants of F. fulva carrying an avr9 **promoter**- beta -glucuronidase **reporter** gene fusion. The possibility that expression of avr9 in F. fulva growing in planta is...

11/K/4 (Item 1 from file: 35)

...thirteen encode proteins with similarity to the components of bacterial type III secretion apparati of **plant** and animal bacterial pathogens. Strains with mutations in these genes are non-pathogenic on host ...

...and hypersensitivity on the host and nonhost plants, respectively. Expression of the hrp genes is **plant**-inducible. The hrpXo gene, which is not located in the major hrp region, encodes a...

...of many hrp genes is regulated by hrpXo. When hrpXo is expressed under the lac **promoter**, HrpXo can activate the expression of other hrp genes in otherwise nonpermissive conditions. Although avrXa10...

...by hrpXo, the bacterial avirulence phenotypes (avrXa10 and avrXa7) on the rice plants with corresponding **resistance gene** depend on functional hrp secretion pathway. In addition to the hrp secretion apparatus, an acidic transcription domain in the carboxyl terminus of AvrXa10, which activates the expression of **reporter** gene in a yeast one-hybrid system and Arabidopsis, is concomitantly required for avrXa10 activity...
...avirulence activity. These results suggest that AvrXa10 might be secreted via hrp pathway, targeted into **plant** nucleus and possibly functions as a transcription **activator** during the resistance reaction in rice.
?

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WEST Search History

DATE: Wednesday, November 13, 2002

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
L19	L18 same pathogen	1	L19
L18	L17 same resistance	12	L18
L17	L15 same (plant)	30	L17
L16	L15 same (R gene)	1	L16
L15	recursive same recombination	137	L15
L14	L7 and (inducible promoter)	11	L14
L13	L7 and promoter	11	L13
L12	L6 same (plant) and promoter	11	L12
L11	L9 same activation	5	L11
L10	L9 same reporter	1	L10
L9	L8 same elicitor	14	L9
L8	L2 same (plant)	184	L8
L7	L6 same (plant)	11	L7
L6	L2 same (reporter with promoter)	15	L6
L5	L1 same (reporter with promoter)	1	L5
L4	L1 same L2	13	L4
L3	L1 or L2	1058	L3
L2	R gene	725	L2
L1	plant near5 (disease near5 (resistance gene))	387	L1

END OF SEARCH HISTORY

File Copy
09/849,452

DIALOG

Set	Items	Description
S1	8806830	PLANT?
S2	165816	S1 (S)RESISTANCE
S3	1510	S2 (S) ELICITOR
S4	11	S3 (S)(INDUCIBLE(W)PROMOTER)
S5	5	RD S4 (unique items)

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5/K/1 (Item 1 from file: 5)
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ABSTRACT: **Plants** activate disease **resistance** responses when they recognize pathogen-derived molecules (elicitors). Frequently, recognition results in a hypersensitive response...

...the infection site. Here we describe a genetic engineering approach to generate an HR in **plants**, whether or not an invading micro-organism produces a recognized **elicitor**. To that aim we created transgenic tobacco **plants** in which the pathogen-**inducible promoter** of the hsr203J gene from tobacco controls the expression of the popA **elicitor** gene from Ralstonia solanacearum. Because PopA itself also induces the hsr203J promoter, transgenic **plants** rapidly accumulate the bacterial **elicitor** in the pathogen infection sites. The **elicitor** becomes converted in **plant** tissues into its fully active derivatives PopA1-PopA3, showing that the previously observed processing events...

...The outcome of induced PopA accumulation is a localized HR and a high degree of **resistance** of the transgenic **plants** to an oomycete pathogen. The system is functional in hybrids between different tobacco varieties, and we show that the engineered **resistance**, but not the associated cell death, is dependent on the salicylic acid signalling cascad. Although the approach is powerful in generating oomycete **resistance**, the induced HR might affect **plant** health. Its application thus requires a careful selection of individual transgenic lines and trials with...

5/K/3 (Item 1 from file: 357)
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...ABSTRACT: I) obtainable from Cladosporium fulvum and capable of eliciting a hypersensitive response (HR) response in **plants** and comprising a 259 residue amino acid sequence, fully defined in the specification, or its...

... I); (2) a chimeric nucleotide sequence (III) comprising (II) under operational control of a pathogen **inducible promoter**; (3) a vector (IV) comprising (III); (4) a host (V) comprising (IV); and (5) a **plant** made **resistance** against **plant** pathogens by using (I). WIDER DISCLOSURE - Chimeric transcription factors which have the DNA binding domain (amino acids 202-221 of (S1)) are disclosed as new. ACTIVITY - **Plant** protectant. MECHANISM OF ACTION - **Elicitor** of HR response. No biological data is given. USE - (I) is useful for eliciting a HR response in **plants** , and (III) is useful for inducing a pathogen **resistance** in **plants**. (V), preferably an Agrobacterium comprising (IV) is useful for transforming a **plant** to make a **plant** resistant against **plant** pathogens. (All claimed). The **plants** or its edible part (especially tomato or tobacco) with improved **resistance** against pathogens are useful for animal feed or human consumption, or may be processed for...
... other purposes in any form of agriculture or industry. Industries which may benefit from the **plant** material include pharmaceutical industry, the paper and pulp manufacturing industry, sugar manufacturing industry, feed and food industry, and enzyme manufacturers. ADVANTAGE - The **plants** or its part have decreased need for pesticide treatment, thus lowering costs of material, labor...

... environmental pollution, or prolonging shelf-life of products (e.g. fruits, seeds, etc) of such **plants**. EXAMPLE - Poly(A)+ RNA was isolated form strain 5a of Cladosporium fulvum which showed high...

... was screened by toothpick-inoculation of each individual A. tumefaciens colony onto leaves of tomato **plants** carrying either **resistance** gene Cf-4 (MM-Cf4) and Cf-9 (MM-Cf9). Between 11-20 days after...

... also induced HR on N. clevelandii. Colony 72-11F only induced HR on MM-Cf4 **plants** , whereas colony 84-5C gave HR on both MM-Cf4 and MM-Cf9 **plants**. The three colonies that were found to be positive both on tomato and tobacco (43...

...was identical to the sequence published for the avirulence protein, Avr4 mRNA encoding the AVR4 **elicitor** . The three cDNAs, of which functional expression induced lesions both on tomato and tobacco, were ...

5/K/4 (Item 2 from file: 357)
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ABSTRACT: A DNA fragment (I) contains the **inducible promoter** (II) from the class II O-methyltransferase (COMT) gene of **plants** , is claimed. Also claimed are: a chimeric gene (or expression cassette) (A), functional in **plant** cells or **plants** containing (I) as the 5'-regulator, a coding sequence and a 3'-regulator; a cloning or expression vector for transforming **plant** cells or **plants** containing the above chimeric gene; transforming **plant** cells and **plants** by integration of the above chimeric gene into the **plant** genome; **plants** produced by growing and crossing **plants** propagated from the above transformed **plant** cells; and seeds from the above transgenic **plants**. (I) is used to induce expression, in **plants**, of genes, especially those that confer disease-**resistance** to diseases, insects or other forms of stress, in response to mechanical and chemical injury or infection by bacterium, fungi, viruses or nematodes. In an example, cDNA encoding the **elicitor** beta-megaspermine was fused to tobacco (Nicotiana tabacum) COMT-II promoter (1,239 bp) and...

5/K/5 (Item 3 from file: 357)
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DESCRIPTORS: potato, rice transgenic plant, phenylalanine-ammonia-lyase elicitor-, wound-**inducible promoter**, reporter gene expression, appl. agrochemical screening, herbicide **resistance**, disease-**resistance**, insect **resistance**, nematode **resistance**, arachnid **resistance** secondary metabolite prep., male sterile, female sterile, enzyme prep., etc. Solanum tuberosum Oryza sativa Oryza...
? t s5/medium/1-5

5/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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13439981 BIOSIS NO.: 200200068802
A local accumulation of the Ralstonia solanacearum PopA protein in transgenic tobacco renders a compatible plant-pathogen interaction incompatible.
AUTHOR: Belbahri Lassaad; Boucher Christian; Candresse Thierry; Nicole Michel; Ricci Pierre; Keller Harald(a)
AUTHOR ADDRESS: (a)Unite Interactions Plantes-Microorganismes et Sante Vegetale, INRA, 06606, Antibes**France E-Mail: keller@antibes.inra.fr

JOURNAL: Plant Journal 28 (4):p419-430 November, 2001
MEDIUM: print
ISSN: 0960-7412
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

5/3/2 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

116102843 CA: 116(11)102843h PATENT
Pathogen-resistant transgenic Solanaceae.
INVENTOR(AUTHOR): De Wit, Peter Jozef Gerard Marie
LOCATION: Neth.
ASSIGNEE: Rijkslandbouwuniversiteit Wageningen
PATENT: PCT International ; WO 9115585 A1 DATE: 911017
APPLICATION: WO 91NL52 (910327) *NL 90773 (900402)
PAGES: 25 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/31A; C12N-015/82B; A01N-063/02B DESIGNATED COUNTRIES: AU; CA; JP; US
DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LU; NL; SE

5/3/3 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.

0286610 DBR Accession No.: 2002-08457 PATENT
Novel transcription factor protein obtained from Cladosporium fulvum, which causes a hypersensitive response in plants and useful for conferring pathogen resistance to plants - Cladosporium fulvum recombinant transcription factor protein preparation involving Agrobacterium tumefaciens vector-mediated gene transfer and expression in plant cell for use in tomato and tobacco transgenic plantconstruction
AUTHOR: TAKKEN F; DE WIT P J G M
PATENT ASSIGNEE: SYNGENTA MOGEN BV 2002
PATENT NUMBER: WO 200202787 PATENT DATE: 20020110 WPI ACCESSION NO.: 2002-148016 (200219)
PRIORITY APPLIC. NO.: EP 2000202320 APPLIC. DATE: 20000703
NATIONAL APPLIC. NO.: WO 2001EP7621 APPLIC. DATE: 20010702
LANGUAGE: English

5/3/4 (Item 2 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.

0260738 DBR Accession No.: 2001-00314 PATENT
Inducible promoter for plants, useful for controlling expression of e.g. disease-resistance genes, is derived from an O-methyltransferase gene and is induced by injury or infection - Agrobacterium tumefaciens vector-mediated beta-megaspermine, tobacco O-methyltransferase promoter fusion gene transfer and expression in tobacco transgenic plant for crop improvement
AUTHOR: Fritig B; Toquin V; Geoffroy P; Legrand M; Kauffmann S
CORPORATE SOURCE: France.
PATENT ASSIGNEE: Rhobio 2000
PATENT NUMBER: WO 200056897 PATENT DATE: 20000928 WPI ACCESSION NO.: 2000-594577 (2056)
PRIORITY APPLIC. NO.: FR 997646 APPLIC. DATE: 19990611
NATIONAL APPLIC. NO.: WO 2000FR714 APPLIC. DATE: 20000322
LANGUAGE: French

5/3/5 (Item 3 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.

0149505 DBR Accession No.: 93-07557 PATENT
Inducible plant defense gene regulatory region from potato or rice - transgenic plant construction with phenylalanine-ammonia-lyase elicitor- and/or wound-inducible promoter for agrochemical screening, crop improvement, etc.
PATENT ASSIGNEE: Smart-Plants 1993
PATENT NUMBER: WO 9307279 PATENT DATE: 930415 WPI ACCESSION NO.: 93-134468 (9316)
PRIORITY APPLIC. NO.: US 770083 APPLIC. DATE: 911003
NATIONAL APPLIC. NO.: WO 92US8560 APPLIC. DATE: 921002
LANGUAGE: English
?